

Substitute Form PTO-1449

U.S. Department of Commerce
Patent and Trademark Office

Attorney's Docket No.

01194-465001

Application No.

10/637,130

(Modified)

**Information Disclosure Statement
by Applicant**

(Use several sheets if necessary)

Applicant

Lanphere et al.

Filing Date

August 8, 2003

Group Art Unit

(37 CFR 1.98(b))

U.S. Patent Documents

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
h	AA	2,609,347	09/02/1952	Wilson			
	AB	3,663,470	05/16/1972	Nishimura et al.			
	AC	3,737,398	06/05/1973	Yamaguchi			
	AD	3,957,933	05/18/1976	Egli et al.			
	AE	4,025,686	05/24/1977	Zion			
	AF	4,055,377	10/25/1977	Erickson et al.			
	AG	4,076,640	02/28/1978	Forgensi et al.			
	AH	4,098,728	07/04/1978	Rosenblatt			
	AI	4,110,529	08/29/1978	Stoy			
	AJ	4,191,672	03/04/1980	Salome et al.			
	AK	4,198,318	04/15/1980	Stowell et al.			
	AL	4,243,794	01/06/1981	White et al.			
	AM	4,246,208	01/20/1981	Dundas			
	AN	4,266,030	05/05/1981	Tschang et al.			
	AO	4,268,495	05/19/1981	Muxfeldt et al.			
	AP	4,271,281	06/02/1981	Kelley et al.			
	AQ	4,413,070	11/01/1983	Rembaum			
	AR	4,427,794	01/24/1984	Lange et al.			
	AS	4,428,869	01/31/1984	Munteanu et al.			
	AT	4,429,062	01/31/1984	Pasztor et al.			
	AU	4,442,843	04/17/1984	Rasor et al.			
	AV	4,444,961	04/24/1984	Timm			
	AW	4,452,773	06/05/1984	Molday			
	AX	4,456,693	06/26/1984	Welsh			
	BA	4,459,145	07/10/1984	Elsholz			
	BB	4,472,552	09/18/1984	Blouin			
	BC	4,477,255	10/16/1984	Pasztor et al.			
h	BD	4,492,720	01/08/1985	Moiser			

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EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute Disclosure Form (PTO-1449)

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 01194-465001	Application No. 10/637,130
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h	BE	4,522,953	06/11/1985	Barby et al.			
h	BF	4,542,178	09/17/1985	Zimmermann et al.			
	BG	4,551,132	11/05/1985	Pasztor et al.			
	BH	4,551,436	11/05/1985	Johnson et al.			
	BI	4,573,967	03/04/1986	Hargrove et al.			
	BJ	4,622,362	11/11/1986	Rembaum			
	BK	4,623,706	11/18/1986	Timm et al.			
	BL	4,657,756	04/14/1987	Rasor et al.			
	BM	4,661,137	04/28/1987	Garnier et al.			
	BN	4,663,358	05/05/1987	Hyon et al.			
	BO	4,671,954	06/09/1987	Goldberg et al.			
	BP	4,675,113	06/23/1987	Graves et al.			
	BQ	4,678,814	07/07/1987	Rembaum			
	BR	4,680,320	07/14/1987	Uku et al.			
	BS	4,681,119	07/21/1987	Rasor et al.			
	BT	4,742,086	05/03/1988	Masamizu et al.			
	BU	4,743,507	05/10/1988	Franses et al.			
	BV	4,772,635	09/20/1988	Mitschker et al.			
	BW	4,782,097	11/01/1988	Jain et al.			
	BX	4,789,501	12/06/1988	Day et al.			
	BY	4,795,741	01/03/1989	Leshchiner et al.			
	BZ	4,801,458	01/31/1989	Hidaka et al.			
	CA	4,804,366	02/14/1989	Zdeb et al.			
	CB	4,819,637	04/11/1989	Dormandy, Jr. et al.			
	CC	4,822,535	04/18/1989	Ekman et al.			
	CD	4,833,237	05/23/1989	Kawamura et al.			
h	CE	4,850,978	07/25/1989	Dudar et al.			
h	CF	4,859,711	08/22/1989	Jain et al.			

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U.S. Patent Documents

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h	CG	4,863,972	09/05/1989	Itagaki et al.			
	CH	4,929,400	05/29/1990	Rembaum et al.			
	CI	4,933,372	06/12/1990	Feibush et al.			
	CJ	4,954,399	09/04/1990	Tani et al.			
	CK	4,981,625	01/01/1991	Rhim et al.			
	CL	4,990,340	02/05/1991	Hidaka et al.			
	CM	4,999,188	03/12/1991	Sloldovnik et al.			
	CN	5,007,940	04/16/1991	Berg			
	CO	5,011,677	04/30/1991	Day et al.			
	CP	5,032,117	07/16/1991	Motta			
	CQ	5,034,324	07/23/1991	Shinozaki et al.			
	CR	5,047,438	09/10/1991	Feibush et al.			
	CS	5,079,274	01/07/1992	Schneider et al.			
	CT	5,106,903	04/21/1992	Vanderhoff et al.			
	CU	5,114,421	05/19/1992	Polak			
	CV	5,116,387	05/26/1992	Berg			
	CW	5,120,349	06/09/1992	Stewart et al.			
	CX	5,125,892	06/30/1992	Drudik			
	CY	5,147,631	09/15/1992	Glajch et al.			
	CZ	5,147,937	09/15/1992	Frazza et al.			
	DA	5,149,543	09/22/1992	Cohen et al.			
	DB	5,158,573	10/27/1992	Berg			
	DC	5,171,214	12/15/1992	Kolber et al.			
	DD	5,190,766	03/02/1993	Ishihara			
	DE	5,202,352	04/13/1993	Okada et al.			
	DF	5,216,096	06/01/1993	Hattori et al.			
	DG	5,253,991	10/19/1993	Yokota et al.			
h	DH	5,260,002	11/09/1993	Wang			

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HL	DI	5,288,763	02/22/1994	Li et al.			
	DJ	5,292,814	03/08/1994	Bayer et al.			
	DK	5,302,369	04/12/1994	Day et al.			
	DL	5,314,974	05/24/1994	Ito et al.			
	DM	5,316,774	05/31/1994	Eury et al.			
	DN	5,344,452	09/06/1994	Lemperle			
	DO	5,344,867	09/06/1994	Morgan et al.			
	DP	5,354,290	10/11/1994	Gross			
	DQ	5,369,133	11/29/1994	Ihm et al.			
	DR	5,369,163	11/29/1994	Chiou et al.			
	DS	5,369,710	06/17/1997	Lo et al.			
	DT	5,382,260	01/17/1995	Dormandy, Jr. et al.			
	DU	5,384,124	01/24/1995	Courteille et al.			
	DV	5,397,303	03/14/1995	Sancoff et al.			
	DW	5,398,851	03/21/1995	Sancoff et al.			
	DX	5,403,870	04/04/1995	Gross			
	DY	5,417,982	05/23/1995	Modi			
	DZ	5,431,174	07/11/1995	Knute			
	EA	5,435,645	07/25/1995	Faccioli et al.			
	EB	5,456,693	10/10/1995	Conston et al.			
	EC	5,468,801	11/21/1995	Antonelli et al.			
	ED	5,476,472	12/19/1995	Dormandy, Jr. et al.			
	EE	5,484,584	01/16/1996	Wallace et al.			
	EF	5,490,984	02/13/1996	Freed			
	EG	5,494,682	02/27/1996	Cohen et al.			
	EH	5,494,940	02/27/1996	Unger et al.			
HL	EI	5,512,604	04/30/1996	Demopolis			
	EJ	5,514,090	07/07/1996	Kriesel et al.			

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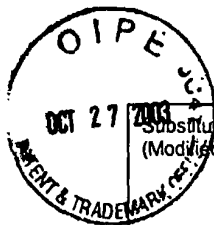
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



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U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
H	EK	5,525,334	06/11/1996	Ito et al.			
	EL	5,534,589	07/09/1996	Hager et al.			
	EM	5,541,031	07/30/1996	Yamashita et al.			
	EN	5,542,935	08/06/1996	Unger et al.			
	EO	5,553,741	09/10/1996	Sancoff et al.			
	EP	5,556,610	09/17/1996	Yan et al.			
	EQ	5,556,931	09/17/1996	Cerccone et al.			
	ER	5,558,255	09/24/1996	Sancoff et al.			
	ES	5,558,822	09/24/1996	Gitman et al.			
	ET	5,558,856	09/24/1996	Klaveness et al.			
	EU	5,559,266	09/24/1996	Klaveness et al.			
	EV	5,567,415	10/22/1996	Porter			
	EW	5,569,193	10/29/1996	Hofstetter et al.			
	EX	5,569,449	10/29/1996	Klaveness et al.			
	EY	5,569,468	10/29/1996	Modi			
H	EZ	5,571,182	11/05/1996	Ersek et al.			
	EAA	5,583,162	12/10/1996	Li et al.			
	FA	5,585,112	12/17/1996	Unger et al.			
	FB	5,595,821	01/21/1997	Hager et al.			
	FC	5,622,657	04/22/1997	Takada et al.			
	FD	5,624,685	04/29/1997	Takahashi et al.			
	FE	5,635,215	06/03/1997	Boschetti et al.			
	FF	5,637,087	06/10/1997	O'Neil et al.			
	FG	5,639,710	07/17/1997	Lo et al.			
	FH	5,648,095	07/15/1997	Illum et al.			
H	FI	5,648,100	07/15/1997	Boschetti et al.			
	FJ	5,650,116	07/22/1997	Thompson			
	FK	5,651,990	01/29/1997	Takada et al.			

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Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
HL	FL	5,653,922	08/05/1997	Li et al.			
	FM	5,657,756	08/19/1997	Vrba			
	FN	5,681,576	10/28/1997	Henry			
	FO	5,695,480	12/09/1997	Evans et al.			
	FP	5,695,740	12/09/1997	Porter			
	FQ	5,701,899	12/30/1997	Porter			
	FR	5,716,981	02/10/1998	Hunter et al.			
	FS	5,718,884	02/17/1998	Klaveness et al.			
	FT	5,723,269	03/03/1998	Akagi et al.			
	FU	5,725,534	03/10/1998	Rasmussen			
	FV	5,746,734	05/05/1998	Dormandy, Jr. et al.			
	FW	5,752,974	05/19/1998	Rhee et al.			
	FX	5,760,097	06/02/1998	Li et al.			
	FY	5,766,147	06/16/1998	Sancoff et al.			
	FZ	5,770,222	06/23/1998	Unger et al.			
	GA	5,779,668	07/14/1998	Grabenkort			
	GB	5,785,642	07/28/1998	Wallace et al.			
	GC	5,785,682	07/28/1998	Grabenkort			
	GD	5,792,478	08/11/1998	Lawin et al.			
	GE	5,795,562	08/18/1998	Klaveness et al.			
	GF	5,797,953	08/25/1998	Tekulve			
	GG	5,807,323	09/15/1998	Kriesel et al.			
	GH	5,813,411	09/29/1998	Van Bladel et al.			
	GI	5,823,198	10/20/1998	Jones et al.			
	GJ	5,827,502	10/27/1998	Klaveness et al.			
	GK	5,827,531	10/27/1998	Morrison et al.			
HL	GL	5,830,178	11/03/1998	Jones et al.			
	GM	5,833,361	11/10/1998	Funk			

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h	GN	5,846,518	12/08/1998	Yan et al.			
	GO	5,855,615	01/05/1999	Bley et al.			
	GP	5,863,957	01/26/1999	Li et al.			
	GQ	5,876,372	03/02/1999	Grabenkort et al.			
	GR	5,877,224	03/02/1999	Brocchini et al.			
	GS	5,885,547	03/23/1999	Gray			
	GT	5,885,216	03/29/1999	Evans, III et al.			
	GU	5,899,877	04/04/1999	Leibitzki et al.			
	GV	5,891,155	04/06/1999	Irie			
	GW	5,895,411	04/20/1999	Irie			
	GX	5,902,832	05/11/1999	Van Bladel et al.			
	GY	5,922,025	07/13/1999	Hubbard			
	GZ	5,928,626	07/27/1999	Klaveness et al.			
	GAA	5,951,160	09/14/1999	Ronk			
	GBB	5,959,073	09/28/1999	Schlameus et al.			
	GCC	6,003,566	12/21/1999	Thibault et al.			
	HA	6,015,546	01/18/2000	Sutton et al.			
	HB	6,027,472	02/22/2000	Kriesel et al.			
	HC	6,028,066	02/22/2000	Unger			
	HD	6,047,861	04/11/2000	Vidal et al.			
	HE	6,051,247	04/18/2000	Hench et al.			
	HF	6,059,766	05/09/2000	Greff			
	HG	6,063,068	05/16/2000	Fowles et al.			
	HH	6,071,497	06/06/2000	Steiner et al.			
	HI	6,073,759	06/13/2000	Lamborne et al.			
	HJ	6,090,925	07/18/2000	Woiszwilllo et al.			
	HK	6,096,344	08/01/2000	Liu et al.			
h	HL	6,099,864	08/08/2000	Morrison et al.			

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HR	HM	6,100,306	08/08/2000	Li et al.			
HR	HN	6,139,963	10/31/2000	Fujii et al.			
	HO	6,149,623	11/21/2000	Reynolds			
	HP	6,162,377	12/19/2000	Ghosh et al.			
	HQ	6,165,193	12/26/2000	Greene, Jr. et al.			
	HR	6,191,193 B1	02/20/2001	Lee et al.			
	HS	6,214,331 B1	04/10/2001	Vanderhoff et al.			
	HT	6,224,794 B1	05/01/2001	Amsden et al.			
	HU	6,224,630	05/01/2001	Bao et al.			
	HV	6,235,224 B1	05/22/2001	Mathiowitz et al.			
	HW	6,238,403 B1	05/29/2001	Greene, Jr. et al.			
	HX	6,258,338	07/10/2001	Gray			
	HY	6,261,585 B1	07/17/2001	Sefton et al.			
	HZ	6,264,861 B1	07/24/2001	Tavernier et al.			
	HAA	6,267,154 B1	07/31/2001	Felicelli et al.			
	HBB	6,268,053 B1	07/31/2001	Woiszwilllo et al.			
	IA	6,277,392 B1	08/21/2001	Klein			
	IB	2001/0016210 A1	08/23/2001	Mathiowitz et al.			
	IC	6,291,605 B1	09/18/2001	Freeman et al.			
	ID	6,306,427	10/23/01	Annonier et al.			
	IE	6,306,418 B1	10/23/2001	Bley			
	IF	2001/0036451 A1	11/01/2001	Goupil et al.			
	IG	6,315,709	11/13/2001	Garibaldi et al.			
	IH	US 2001/0051670 A1	12/13/2001	Goupil et al.			
	II	6,335,384 B1	01/01/2002	Evans et al.			
	IJ	6,344,182 B1	02/05/2002	Sutton et al.			
	IK	6,394,965 B1	05/28/2002	Klein			

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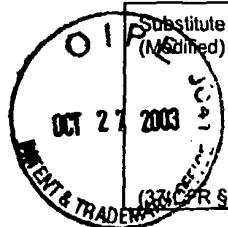
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h	IL	6,423,332 B1	07/23/2002	Huxel et al.			
h	IM	6,432,437 B1	08/13/2002	Hubbard			
h	IN	H915 (US Statutory Invention Registration)	05/07/1991	Gibbs			

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Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
h	IO	0 422 258 A1	10/1989	Europe				X
	IP	0 402 031	05/1990	Europe				
	IQ	0 470 569 A1	02/1992	Europe				
	IR	0 547 530 B1	06/1993	Europe				
	IS	0 623 012 B1	11/1994	Europe				
	IT	0 706 376 B1	04/1996	Europe				
	IU	EP 0 730 847 A1	09/1996	Europe				
	IV	0 744 940 B1	12/1996	Europe				
	IW	0 797 988 A2	10/1997	Europe				
	IX	DE 94 14 868.6	02/1995	Germany				X
	IY	DE 100 26 620 A 1	03/2002	Germany				X
	IZ	4-74117	03/1992	Japan (abstract)			X	
	IAA	4-74117	03/1992	Japan (full)				X
	IBB	6-57012	03/1994	Japan (abstract)			X	
	ICC	6-57012	03/1994	Japan (full)				X
	IDD	9-110678	04/1997	Japan (abstract)			X	
	IEE	9-110678	04/1997	Japan (full)				X
	IFF	9-316271	12/1997	Japan (abstract)			X	
	IGG	9-316271	12/1997	Japan (full)				X
h	IHH	10-130329	05/1998	Japan (abstract)			X	

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							Yes	No
✓	III	10-130329	05/1998	Japan (full)				X
✓	IJJ	JP 2002 017848 (abstract only)	01/2002	Japan			X	
✓	IKK	59-196738	11/1984	Japan (abstract)			X	
✓	JA	59-196738	11/1984	Japan (full)				X
✓	JB	62-45637	02/1987	Japan (abstract)			X	
✓	JC	62-45637	02/1987	Japan (full)				X
✓	JD	WO 00/23054	04/2000	WIPO				
✓	JE	WO 00/40259	07/2000	WIPO				
✓	JF	WO 00/71196	11/2000	WIPO				
✓	JG	WO 00/74633 A2	12/2000	WIPO				
✓	JH	WO 02/43580 A2	06/2002	WIPO				
✓	JI	WO 02/11696 A2	02/2002	WIPO				
✓	JJ	WO 01/70291 A2	09/2001	WIPO				
✓	JK	WO 01/76845 A1	10/2001	WIPO				
✓	JL	WO 92/21327	12/1992	WIPO				
✓	JM	WO 93/19702	10/1993	WIPO				
✓	JN	WO 94/10936	05/1994	WIPO				
✓	JO	WO 95/03036	02/1995	WIPO				
✓	JP	WO 95/22318	08/1995	WIPO				
✓	JQ	WO 96/39464	12/1996	WIPO				
✓	JR	WO 96/37165	11/1996	WIPO				
✓	JS	WO 98/04616	02/1998	WIPO				
✓	JT	WO 98/10798	03/1998	WIPO				
✓	JU	WO 99/12577	03/1999	WIPO				
✓	JV	WO 99/57176	11/1999	WIPO				
✓	JW	WO 02/34298	05/2002	WIPO				
✓	JX	WO 02/34299	05/2002	WIPO				

Examiner Signature

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Date Considered

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Substitute Form PTO-1449 (Modified) OCT 27 2003 PATENT & TRADEMARK OFFICE (37 CFR § 1.98(b))	U.S. Department of Commerce Patent and Trademark Office		Attorney's Docket No. 01194-465001	Application No. 10/637,130
	Information Disclosure Statement by Applicant (Use several sheets if necessary)		Applicant Lanphere et al.	
			Filing Date August 8, 2003	Group Art Unit

Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
h	JY	WO 02/34300	05/2002	WIPO				

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
* h	JZ	"Pulmonary artery pseudoaneurysm/aneurysm" Available Web Site: http://www.mame.amedd.army.mil/williams/chest/vascular/paaneurysm/paaneurysm.htm
h	JAA	Bachtsi, A.R. et al., "An Experimental Investigation of Enzyme Release from Poly(vinyl alcohol) crosslinked Microspheres", <i>J. Microencapsulation</i> , Vol. 12, No. 1, pp. 23-35; 1995.
✓	JBB	Barr, J.D., et al., "polyvinyl Alcohol Foam Particles Sizes and Concentrations Injectable through Microcatheters", <i>JVIR</i> , Vol. 9, No. 1, pp. 113-118; 1998.
✓	JCC	Barttinelli, L. et al., "New Class of Poly(vinyl alcohol) Polymers as Column- Chromatography Stationary Phases for Candida Rugosa Lipase Isoforms Separation.", <i>J. Chromatogr A</i> , Vol. 753, No. 1, pp. 47-55; 1996. Abstract. http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?
✓	JDD	Berenstein, A. et al., "Catheter and Material Selection for Transarterial Embolization: Technical Considerations. II. Materials.", <i>Radiology</i> , Vol. 132, No. 3, pp. 631-639; 1979.
✓	JEE	Berenstein, A. et al., "Microembolization Techniques of Vascular Occlusion: Radiologic, Pathologic, and Clinical Correlation", <i>AJNR Am J Neuroradiol</i> , Vol. 2, No. 3, pp. 261-267; 1981. Abstract, http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?
✓	JFF	Bruix, J. et al., "Transarterial Embolization Versus Symptomatic Treatment in Patients With Advanced Hepatocellular Carcinoma: Results of a Randomized, Controlled Trial in a Single Institution", <i>Hepatology</i> , June 1998, Vol. 27, No. 6, pp. 1578-1583 Available Web Site: http://www.hepatitis-central.com/hcv/hcc/embolization/references.html
✓	JGG	Buhle, Jr. EL, "Re: Re: Hepatic Arterial Embolization", <i>UCLA Medicine Online</i> Available Web Site: http://www.meds.com/archive/mol-cancer/1996/msg00128.html
✓	JHH	Burczak, et al., "Long-term in vivo performance and biocompatibility of poly (vinyl alcohol) hydrogel macrocapsules for hybrid-type artificial pancreas", <i>Biomaterials</i> , Vol. 17, No. 24, pp. 2351-2356, 1996, abs: http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=retrieve&db=PubMed&list_uids=89624... , pp. 1, 2002.
✓	KA	Burczak, et al., "Polymeric materials for biomedical purposes obtained by radiation methods. V. hybrid artificial pancreas", <i>Polim Med</i> , Vol. 24, No. 1-2, pp. 45-55, 1994, abs: http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=retrieve&db=PubMed&list_uids=7915... , pp. 1, 2002.
✓	KB	Choe, et al., "An experimental study of embolic effect according to infusion rate and concentration of suspension in transarterial particulate embolization", <i>Invest Radiol</i> , Vol. 32, No. 5, pp. 260-270, 1997, abs: http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=retrieve&db=PubMed&list_uids=9140745&opt=Abs... , pp. 1, 2002.
h	KC	Chuang et al., "Experimental Canine Hepatic Artery Embolization with Polyvinyl Alcohol Foam Particles", <i>Departments of Diagnostic Radiology and Veterinary Medicine</i> , The University of Texas, M.D. Anderson Hospital and Tumor Institute at Houston, Texas, pp. 21-25
* h	KD	Clarian Health Methodist - Indiana Lions Gamma Knife Center, "Arteriovenous Malformation" Available Web Site: http://www.clarian.com/tyhealth/gammaknife/cond_arter.asp

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Substitute Disclosure Form (PTO-1449)

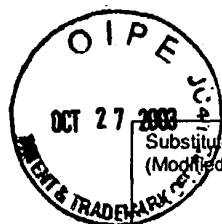
Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 01194-465001	Application No. 10/637,130
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		Filing Date August 8, 2003	Group Art Unit

(37 CFR 1.98(b))

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
hlc	KE	Colombo M, "Treatment of Hepatocellular Carcinoma", University of Milan, Inst Internal Med, Irccs Maggiore Res Unit Liver, Canc, Firc, Via Pace 9 1-20122 Milan, Italy Source: Journal of Viral Hepatitis, 1997;4:125-130 Available Web Site: http://home.texoma.net/~moreland/stats4cc-9.html
✓	KF	Derdeyn, et al., "Collagen-coated acrylic microspheres for embolotherapy: in vivo and in vitro characteristics", <i>American Journal of Neuroradiology</i> , Vol. 18, No.4, pp. 647-653, 1997, abs: http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=retrieve&db=PubMed&list_uids=9127025&dopt=Abs... , pp. 1, 2002.
✓	KG	Derdeyn, et al., "Polyvinyl alcohol particle size and suspension characteristics", <i>American Journal of Neuroradiology</i> , Vol. 16, pp. 1335-1343, 1995.
✓	KH	DiLuccio et al., "Sustained-Release Oral Delivery of Theophylline by Use of Polyvinyl Alcohol and Polyvinyl Alcohol-Methyl Acrylate Polymers", <i>Journal of Pharmaceutical Sciences</i> , January 1994, Vol. 83, No. 1, pp. 104-106
✓	KI	Gander, et al., "Effect of polymeric network structure on drug release from cross-linked poly(vinyl alcohol) micromatrices", <i>Pharm Res</i> , Vol. 6, No. 7, pp. 578-584, 1989, abs: http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=retrieve&db=PubMed&list_uids=25080... , pp. 1, 2002.
✓	KJ	Germano, et al., "Histopathological follow-up study of 66 cerebral arteriovenous malformations after therapeutic embolization with polyvinyl alcohol", <i>J Neurosurg</i> , Vol. 76, No. 4, pp. 607-614, 1992, abs: http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=retrieve&db=PubMed&list_uids=15452... , pp. 1, 2002.
✓	KK	Geschwind et al., "Chemoembolization of Liver Tumor in a Rabbit Model: Assessment of Tumor Cell Death with Diffusion-Weighted MR Imaging and Histologic Analysis", <i>Journal of Vascular and Interventional Radiology</i> , December 2000, Vol. 11, No. 10, pp. 1244-1255
✓	KL	Gohel, et al., "Formulation design and optimization of modified-release microspheres of diclofenac sodium", <i>Drug Dev Ind Pharm</i> , Vol. 25, No. 2, pp. 247-251, 1999, abs: http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=retrieve&db=PubMed&list_uids=10065360&dopt=Abs... , pp. 1, 2002.
✓	KM	Goodwin, et al., "Overview of embolic agents and their indications", <i>Eleventh Annual International Symposium on Endovascular Therapy</i> , pp. 303-306, 1999.
✓	KN	Goodwin, et al., "Preliminary experience with uterine artery embolization for uterine fibroids", <i>Journal of Vascular and Interventional Radiology</i> , Vol. 8, No. 4, pp. 517-526, 1997.
✓	KO	Grandfils, et al., "Preparation of poly (D,L) lactide microspheres by emulsion solvent evaporation, and their clinical implications as a convenient embolic material", <i>J Biomed Mater Res</i> , Vol. 26, No. 4, pp. 467-479, 1992, abs: http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=retrieve&db=PubMed&list_uids=1601900&dopt=Abs... , pp. 1, 2002.
✓	KP	Hamada, et al., "Embolization with cellulose porous beads, II: Clinical Trial", abs: http://www.gjmr.org/content/abstract/17/10/1901?ikey=R.a2vRMietLXw , pp. 1-2, 2002.
✓	KQ	Horak, et al., "Hydrogels in endovascular embolization. I. Spherical particles of poly (2-hydroxyethyl methacrylate) and their medico-biological properties",
✓	KR	Horak, et al., "Hydrogels in endovascular embolization. II. Clinical use of spherical particles", <i>Biomaterials</i> , Vol. 7, 1986.
hlc	KS	Huang, et al., "Percutaneous endovascular embolization of intracerebral arteriovenous malformations. Experience in 72 cases", <i>Chin Med J</i> , Vol. 108, no. 6, pp. 413-419, 1995, abs:

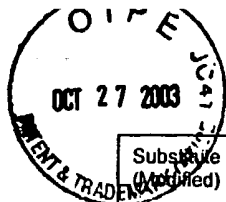
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		Filing Date August 8, 2003	Group Art Unit

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
* 72		http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=retrieve&db=PubMed&list_uids=75552..., pp. 1, 2002.
* v	KT	International Search Report for International Application No. PCT/US01/06981 (2 pages)
h v	KU	Jack, et al., "Radiolabeled polyvinyl alcohol particles: a potential agent to monitor embolization procedures", <i>Int J Rad Appl Instrum B</i> , Vol. 13, No. 3, pp. 235-243, 1986, abs: http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=retrieve&db=PubMed&list_uids=37712, pp. 1, 2002.
v	KV	Joy C, et al., 1991, "Use of Preoperative Embolization in the Treatment of Vascular Metastatic Lesions of the Spine" Available Web Site: http://www.aaos.org/wordhtml/anmeet91/scipro/ppr472.htm
v	KW	Kai, et al., "The utility of the microcrystalline cellulose sphere as a particulate embolic agent: an experimental study", <i>American Journal of Radiology</i> , Vol. 21, No. 6, pp. 1160-1163, 2000, or http://www.givr.org/cgi/content/full/21/6/1160, pp. 1-7, 2002.
v	KX	Kan, et al., "In vivo microscopy of the liver after injection of lipiodol into the hepatic artery and portal vein in the rat", <i>Acta Radiologica</i> , Vol. 30, pp. 419-425, 1989.
v	KY	Kerber et al., "Polyvinyl Alcohol Foam: Prepackaged Emboli for Therapeutic Embolization", <i>American Journal Roentgenol</i> , June 1978, Vol. 130, pp. 1193-1194
v	KZ	Kerber, "Flow-Controlled Therapeutic Embolization: A Physiologic and Safe Technique", <i>AJR</i> , March 1980, Vol. 134, pp. 557-561
v	LA	Kim, et al., "Composite poly(vinyl alcohol) beads for controlled drug delivery", <i>Pharm Res</i> , Vol. 9, No. 1, pp. 10-16, 1992, abs: http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=retrieve&db=PubMed&list_uids=1589302&dopt=Abs..., pp. 1, 2002.
v	LB	Kurata, et al., "Preoperative embolization for meningiomas using PVA particles", <i>No Shinkei Geka</i> , Vol. 20, No. 4, pp. 367-373, 1992, abs: http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=retrieve&db=PubMed&list_uids=1570057&dopt=Abs..., pp. 1, 2002.
v	LC	Kurosaki et al., "Evaluation of PVA-Gel Spheres as GI-Transit Time Controlling Oral Drug Delivery System", <i>Proceedings of the 19th International Symposium on Controlled Release of Bioactive Materials</i> , July 26-31, 1992, Orlando, Florida, pp. 273-274
v	LD	Kusano, et al., "Low-dose particulate polyvinylalcohol embolization in massive small artery intestinal hemorrhage. Experimental and clinical results", <i>Invest Radiol</i> , Vol. 22, No. 5, pp. 388-392, 1987, abs: http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=retrieve&db=PubMed&list_uids=34963..., pp. 1, 2002.
v	LE	Labarre et al., "Complement activation by substituted polyacrylamide hydrogels for embolisation and implantation", <i>Biomaterials</i> , Vol. 23, pp. 2319-2327, 2002
v	LF	Lammer, et al., "Transcatheteral embolization with polyvinyl alcohol—technic and experimental studies", <i>Rontgenblatter</i> , Vol. 36, No. 1, pp. 10-14, 1983, abs: http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=retrieve&db=PubMed&list_uids=6823530&dopt=Abs..., pp. 1, 2002.
v	LG	Latchaw et al., "Polyvinyl Foam Embolization of Vascular and Neoplastic Lesions of the Head, Neck, and Spine", <i>Radiology</i> , June 1979, Vol. 131, pp. 669-679
h v	LH	Leung et al., "Determinants of Postembolization Syndrome after Hepatic Chemoembolization", <i>Journal of Vascular and Interventional Radiology</i> , March 2001, Vol 12, No. 3, pp. 320-326

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Substitute Form PTO-1449 (Continued)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 01194-465001	Application No. 10/637,130
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Lanphere et al.	
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Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
<i>h</i>	LI	Markoff, et al., "Uterine arteriovenous malformation successfully embolized with a liquid polymer, isobutyl 2-cyanoacrylate", pp. 659-660, 1999.
<i>h</i>	LJ	Matsumaru, et al., "Embolic materials for endovascular treatment of cerebral lesions", <i>J Biomater Sci Polym Ed</i> , Vol. 8, No. 7, pp. 555-569, 1997, abs: http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=retrieve&db=PubMed&list_uids=91953... , pp. 1, 2002.
✓	LK	Mid-America Interventional Radiological Society, "New Treatment for Uterine Fibroids Avoids Surgery" Available Web Site: http://www.mirs.org/fibroids.htm
✓	LL	Nakabayashi, et al., "Evaluation of particulate embolic materials with MR imaging, scanning electron microscopy, and phase-contrast microscopy", <i>American Journal of Neuroradiology</i> , Vol. 18, No. 3, pp. 485-491, 1997, abs: http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=retrieve&db=PubMed&list_uids=909004... , pp. 1, 2002.
✓	LM	Nakstad, et al., "Embolization of intracranial arteriovenous malformations and fistulas with polyvinyl alcohol particles nad platinum fibre coils", <i>Neuroradiology</i> , Vol. 34, No. 4, pp. 348-351, 1992, abs: http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=retrieve&db=PubMed&list_uids=15284... , pp. 1, 2002.
✓	LN	Nash, et al., "Modifications of polystyrenic matrices for the purification of proteins. II. Effect of the degree of glutaraldehyde-poly(vinyl alcohol) crosslinking on various dye ligand chromatography systems", <i>J Chromatogr A</i> , Vol. 776, No. 1, pp. 55-63, 1997, abs: http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=retrieve&db=PubMed&list_uids=92860... , pp. 1, 2002.
✓	LO	Nikishin LF et al., 1999, "Interventional radiology in diffuse toxic goiter", <i>European Congress of Radiology - ECR 1999</i> Available Web Site: http://www.eur.org/conferences/ecr1999/sciprg/abs/p090041.htm
✓	LP	Ophir, et al., "Ultrasonic backscatter from contrast producing collagen microspheres", <i>Ultrasonic Imaging</i> , Vol. 2, pp. 67-77, 1980.
✓	LQ	Oregon Health Sciences University, "Fibroid Embolization" Available Web Site: http://www.uhmc.edu/dotter-fibroid
✓	LR	Parker, et al., "A particulate contrast agent with potential for ultrasound imaging of liver", <i>Ultrasound in Medicine and Biology</i> , Vol. 13, No. 9, pp. 555-566, 1987.
✓	LS	Pesant A.C. et al., 1997, "Dural fistulas involving the cavernous sinus: Treatment by embolization - 7 cases", <i>European Congress of Radiology - ECR 1997</i> Available Web Site: http://www.eur.org/conferences/ecr1997/sciprg/abs/9703088p.htm
✓	LT	Physicians' Desk Reference Family Guide to Women's Health, "Chapter 7 - Common Disorders of the Reproductive System" Available Web Site: http://www.healthsquare.com/pdrfg/wh/chapters/wh1ch01.htm
✓	LU	Pritchard, et al., "Poly(Vinyl Alcohol): Basic Properties and Uses", London, England: Gordon and Breach Science Publishers.
✓	LV	Pryor J and Berenstein A., "Epistaxis (Nose-bleeds)" Available Web Site: http://www.wehealny.org/inn/Radiology/nosebleeds.html
<i>h</i>	LW	Purdy, et al., "Arteriovenous malformations of the brain: choosing embolic materials to enhance safety and ease of excision", <i>J Neurosurg</i> , Vol. 77, No. 2, pp. 217-222, 1992, abs: http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=retrieve&db=PubMed&list_uids=16250... , pp. 1, 2002.

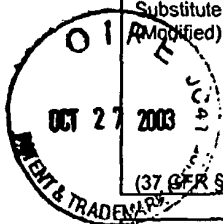
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HL	LX	Quisling, et al., "Histopathology analysis of intraarterial polyvinyl alcohol microemboli in rat cerebral cortex", <i>American Journal of Neuroradiology</i> , Vol. 5, pp. 101-104, 1984.
✓	LY	Rajan et al., "Sarcomas Metastatic to the Liver: Response and Survival after Cisplatin, Doxorubicin, Mitomycin-C, Ethiodol, and Polyvinyl Alcohol Chemoembolization", <i>Journal of Vascular and Interventional Radiology</i> , February 2001, Vol. 12, No. 2, pp. 187-193
✓	LZ	Ramos, et al., "Tumor vascular signals in renal masses: detection with Doppler US", <i>Radiology</i> , Vol. 168, No. 3, pp. 633-637, 1988.
✓	MA	Shafik, A., "Intraesophageal Polytef injection for the treatment of reflux esophagitis", <u>Department of Surgery and Experimental Research, Faculty of Medicine, Cairo University, Cairo, Egypt</u> , pp. 1-2, Received: June 22, 1994; Accepted: October 15, 1994 http://www.ahmedshafik.org/Group-D/d016.htm
✓	MB	Spickler, et al., "The MR appearance of endovascular embolic agents in vitro with clinical correlation", <i>Comput Med Imaging Graph</i> , Vol. 14, No. 6, pp. 415-423, 1990, abs: http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=retrieve&db=PubMed&list_uids=21487 , pp. 1, 2002.
✓	MC	Spies JB, "Georgetown University Medical Center. Uterine Fibroid Embolization (UFE). An alternative to surgery for patients with uterine fibroids. Literature Review." Available Web Site: http://www.dml.georgetown.edu/fibroids
✓	MD	Strunk, et al., "Treatment of congenital coronary arteriovenous malformations with microparticle embolization", <i>Cathet Cardiovasc Diagn</i> , Vol. 22, No. 2, pp. 133-136, 1991, abs: http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=retrieve&db=PubMed&list_uids=2009563&dop=Abs , pp. 1, 2002.
✓	ME	Swanson DA et al., 1980, "The role of embolization and nephrectomy in the treatment of metastatic renal carcinoma", <i>Urologic Clinics of North America</i> 7(3):719-730, 1980. University of Pennsylvania Cancer Center - Oncolink. Available Web Site: http://www.oncolink.upenn.edu/pdf_html/cites/00/00585.html
✓	MF	Tabata et al., "Tumor accumulation of poly(vinyl alcohol) of different sizes after intravenous injection", <i>Journal of Controlled Release</i> , January 2, 1998, Vol. 50, Nos. 1-3, pp. 123-133
✓	MG	Tadavarthy et al., "Polyvinyl Alcohol (Ivalon) as an Embolizing Agent", <i>The American Journal of Roentgenology Radium Therapy and Nuclear Medicine</i> , November 1975, Vol. 125, No. 3, pp. 609-616
✓	MH	Tadavarthy et al., "Polyvinyl Alcohol (Ivalon) as an Embolizing Agent", <i>Seminars in Interventional Radiology</i> , Vol. 1, No. 2, Department of Radiology, University of Minnesota Hospitals, Minneapolis, Minnesota, June 1984, pp. 101-109
✓	MI	Tao, et al., "Study of microspheres for embolization of the hepatic artery", <i>Yao Xue Xue Bao</i> , Vol. 23, No. 1, pp. 55-60, 1988, abs: http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=retrieve&db=PubMed&list_uids=3400477&dop=A , pp. 1, 2002.
✓	MJ	Tao, et al., "Study on embolization of hepatic artery using microspheres", <i>Acta Pharmaceutica Sinica</i> Vol. 23, No. 1, pp. 55-60; 1988. Translation.
✓	MK	Terada, et al., "Preoperative embolization of meningiomas fed by ophthalmic branch arteries", <i>Surg Neurol</i> , Vol. 45, No. 2, pp. 161-166, 1996, abs: http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=retrieve&db=PubMed&list_uids=86070 , pp. 1, 2002.
HL	ML	Thanoo, et al., "Controlled release of oral drugs from cross-linked polyvinyl alcohol microspheres", <i>J Pharm Pharmacol</i> , Vol. 45, No. 1, pp. 16-20, 1993, abs: http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=retrieve&db=PubMed&list_uids=8094438&dop=Abs , pp. 1, 2002.

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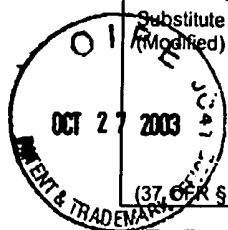
Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
hbx	MM	Thanoo, et al., "Tantalum loaded silicone microspheres as particulate emboli", <i>J Microencapsul</i> , Vol. 8, No. 1, pp. 95-101, 1991, abs: http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&list_uids=1880697&top=Abs... , pp. 1, 2002.
hbx	MN	The Fibroid Embolization Center of the New York United Hospital Medical Center, "Fibroid Facts" Available Web Site: http://www.uhmc.com/fibro2.htm
hbx	MO	The Vanderbilt-Ingram Cancer Center, "Kidney Cancer." Available Web Site: http://www.mc.vanderbilt.edu/cancer/cancerinfo/kidney.html
hbx	MP	Tikkakoski, et al., "Preoperative embolization in the management of neck paragangliomas", <i>Laryngoscope</i> , Vol. 107, pp. 821-826, 1997.
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hbx	MT	Vivas S et al., "Arteriportal fistula and hemobilia in a patient with hepatic transplant", <i>Gastroenterol Hepatol</i> , 1998, Feb;21(2):88-9 Available Web Site: http://www.doyma.es/copiani/revistas/gastro/abstr/abs_p080.html
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hbx	MV	Wakhloo, et al., "Extended preoperative polyvinyl alcohol microembolization of intracranial meningiomas: Assessment of two embolization techniques", <i>American Journal of Neuroradiology</i> , Vol. 14, pp. 571-582, 1993.
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Examiner Signature H T Le	Date Considered 12/04
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Disclosure Form (PTO-1449)

* Weblinks are not helpful as they usually cease to exist after certain time -
- Not available as prior art -

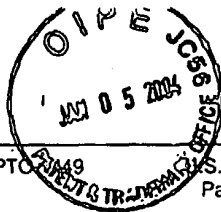


Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 01194-465001	Application No. 10/637,130
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 C.F.R. §1.98(b))		Applicant Lanphere et al.	
		Filing Date August 8, 2003	Group Art Unit

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
hl	NC	Yamada, et al., "Extended intraarterial cisplatin infusion for treatment of gynecological cancer after alteration of intrapelvic blood flow and implantation of a vascular access device", <i>International Radiology</i>
hl	ND	Yusi et al., "Submuscosal Injection of Polyvinyl Alcohol in Artificially Created Vesico-Ureteral Reflux: A Preliminary Report," <i>Asian J. Surg.</i> 18(2): 122-127 (April 1995).

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Sheet 1 of 1

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	Filing Date August 8, 2003	Group Art Unit	

U.S. Patent Documents

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
hl	AA	6,602,524 B2	08/05/2003	Batich et al.			
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
hl	AL	WO 99/43380	02.09.99	PCT				
	AM							
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Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
hl	AQ	Beaujeux, R. et al., "Trisacryl Gelatin Microspheres for Therapeutic Embolization, II: Preliminary Clinical Evaluation in Tumors and Arteriovenous Malformations," <i>AJNR Am. J. Neuroradiol.</i> 17:541-548, March 1996
hl	AR	Stridbeck, H. et al., "Collateral Circulation Following Repeated Distal Embolization of the Hepatic Artery in Pigs," <i>Invest Radiol</i> 1984;19:179-183
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Sheet 1 of 1

Substitute Disclosure Form PTO-1449 (Mandatory)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 01194-465001	Application No. 10/637,130
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U.S. Patent Documents

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
hl	AA	6,680,046	01/20/2004	Boschetti			
	AB	2001/0051670	12/13/2001	Goupil et al.			
	AC	5,698,271	12/16/1997	Liberti et al.			
	AD	5,262,176	11/16/1993	Palmacci et al.			
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Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
hl	AF	0 600 529A	12/11/1993	Europe				
	AG	0 422 258	04/17/1991	Europe				X
	AH	0 422 258	04/17/1991	Europe (Abstract)			X	
	AI	WO03/082359	09/10/2003	PCT				
	AJ	WO98/47532	29/10/1998	PCT				
	AK	DE9414868.6	09/13/1994	Germany				X
	AL	DE9414868.6	09/13/1994	Germany (Abstract)			X	
	AM	DE100 26 620	05/29/2000	Germany				X
hl	AN	DE100 26 620	05/29/2000	Germany (Abstract)			X	

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
hl	AO	Markus, H.S., "Experimental Aspects of High-Intensity Transient Signals in the Detection of Emboli," <i>J Clin Ultrasound</i> 23:81-87 (1995)
hl	AP	Schwarz, K.Q., "The Acoustic Filter: An Ultrasonic Blood Filter for the Heart-Lung Machine," <i>Journal of Thoracic and Cardiovascular Surgery</i> 104(6):1647-1653 (1992)
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U.S. Patent Documents

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
h	AA	2001/0001835	05/24/2001	Greene, Jr. et al.			
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h	AM	5,171,217	12/15/1992	March et al.			

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	AN							
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Other Documents (include Author, Title, Date, and Place of Publication)

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h	AS	Barton, P. et al., "Embolization of Bone Metastases", <i>Journal of Vascular and Interventional Radiology</i> , Vol. 7, No. 1, Jan-Feb 1996, p. 81-88
h	AT	Jiaqi, Y. et al., "A New Embolic Material: Super Absorbent Polymer (SAP) Microsphere and Its Embolic Effects", <i>Nippon Acta Radiologica</i> 1996 (56):19-24
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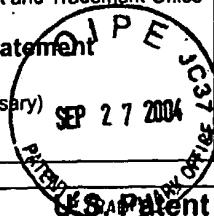
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rk	AV	Repa, I. et al., "Mortalities Associated with Use of a Commercial Suspension of Polyvinyl Alcohol", <i>Radiology</i> 1989; 170:395-399
	AW	Rump, A. et al., "Pharmacokinetics of Intraarterial Mitomycin C in the Chemoembolisation Treatment of Liver Metastases", <i>Gen. Pharmac.</i> Vol. 27, No. 4, pp. 669-671, 1996
	AX	Thanoo, B. C. et al., "Preparation and Properties of Barium Sulphate and Methyl Iothalamate Loaded Poly(vinyl Alcohol) Microspheres as Radiopaque Particulate Emboli", <i>Journal of Applied Biomaterials</i> , Vol. 2, 67-72 (1991)
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rk	AA	6,544,544	04/08/2003	Hunter et al.			
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